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4241-661 RCE

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Section II (Remarks)

A.   Summary of Amendments to the Claims

Claim 1 has been amended to recite that the semi-insulating gallium nitride has "a resistivity greater than about 10^5 Ω-cm," "a thickness of at least about 50 micrometers," and "a diameter of at least about 25 millimeters." The resistivity limitations were disclosed, for example, in original claims 18, 20, and 21, and in paragraph [0024] of the description; the thickness limitation was disclosed, for example, in original claim 11 and in paragraph [0046] of the description; and the diameter limitation was disclosed, for example, in paragraphs [0022] and [0045] of the description.

Additionally, withdrawn claims 42 and 114 have been amended to recite the above-referenced resistivity and dimensional limitations, consistent with amended claim 1. Such amendment to claims 42 and 114 is performed to include all of the limitations of claim 1 in method claims 42 and 114, in order to facilitate rejoinder of method claims 43-116 under MPEP section 821.04.

Claims 17, 19, 53, and 55 have been cancelled herewith.

No new matter within the meaning of 35 USC 132 has been introduced by the foregoing amendments.

B.   Allowable Subject Matter

In the July 17, 2006 Final Office Action, the examiner stated that Cho discloses a donor concentration calculated to have "a resistivity of 2 x 10^3 Ohm centimeters." Office Action, paragraph 3 (page 2). Thereafter, the examiner stated that "[t]he claims would be allowable if the range of resistivity and dimensions are incorporate [sic – *incorporated*] in the independent claims."

Consistent with the examiner's direction, Applicants have amended claim 1 – the sole elected independent claim pending in the application – to recite a resistivity greater than about 10^5 Ω-cm, a thickness of at least about 50 micrometers, and a diameter of at least about 25 millimeters.

18